

^{152}Er $Z = 68$ $N = 84$ adopted link ENSDF link

Based on ENSDF from Oct 2022, and mass evaluation from 2020

BE = 1234.141 (0.009) MeV

Qbeta+ = 3.104 (0.015) MeV

	Energy T	J+	J-	J-other	T1/2

S-alpha=	-4.934	(0.012)	-----		
152ER 1	0.000	0+			1 10.3 S 1
152ER 2	0.808	2+			2
152ER 3	1.481	4+			3
152ER 4				1.524 (3-)	4
152ER 5				1.715 (2+)	5
152ER 6	1.903	6+			6
152ER 7	2.183	8+			7 1.8 NS 3
152ER 8	2.948	10+			8
152ER 9				3.730	9
152ER 10	3.735	12+			10

S-p =	4.167	(0.012)	-----		
152ER 11	4.289	14+			11
152ER 12	4.519	16+			12 1.2 NS 3
152ER 13				4.536 (15)+	13
152ER 14	4.685	16+			14 4.6 NS 14
152ER 15	5.080	18+			15
152ER 16				5.415	16
152ER 17				5.460 (17)-	17
152ER 18				5.635 (18)-	18

S-2p =	5.769	(0.010)	-----		
152ER 19				5.811 (19)-	19
152ER 20				5.967	20

152ER 21				6.037 (19)-	21
152ER 22				6.176 (20)-	22
152ER 23				6.407	23
152ER 24				6.477 (20-)	24
152ER 25				6.487 (21)-	25
152ER 26				6.555 (21)-	26
152ER 27				6.734	27
152ER 28				6.757	28
152ER 29				6.838 (22-)	29
152ER 30				7.012 (22)-	30

152ER 31				7.119 (23)-	31
152ER 32				7.449 (24)-	32
152ER 33				8.113	33
152ER 34				8.233 (26)-	34

152ER	35				8.350		35
152ER	36				8.490		36
152ER	37				8.515	(25)	37
152ER	38				8.528	(27)	38
152ER	39				8.660	(26)-	39
152ER	40				8.691		40

152ER	41				8.863		41
152ER	42				9.680		42
152ER	43		9.712	28+			43
152ER	44				9.725		44

35 NS 4

S-p = 4.167 (0.012)-----
S-n = 10.305 (0.019)-----
S-2p = 5.769 (0.010)-----
S-2n = 18.812 (0.019)-----
S-alpha= -4.934 (0.012)-----

S+p = -0.761 (0.015)
S+n = -8.038 (0.013)
S+2p = -4.010 (0.019)
S+2n = -18.247 (0.010)
S+alpha = 4.810 (0.013)

gap p = 3.405 (0.019)
gap n = 2.268 (0.023)
gap 2p = 1.759 (0.022)
gap 2n = 0.564 (0.022)
gap alpha = -0.124 (0.018)